



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/582,920	06/13/2006	Michinori Shinkai	1232-5890	9223
27123	7590	02/12/2009	EXAMINER	
MORGAN & FINNEGAN, L.L.P.			TALBOT, BRIAN K	
3 WORLD FINANCIAL CENTER				
NEW YORK, NY 10281-2101			ART UNIT	PAPER NUMBER
			1792	
			NOTIFICATION DATE	DELIVERY MODE
			02/12/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

PTOPatentCommunications@Morganfinnegan.com
Shopkins@Morganfinnegan.com
jmedina@Morganfinnegan.com

Office Action Summary	Application No.	Applicant(s)	
	10/582,920	SHINKAI ET AL.	
	Examiner	Art Unit	
	Brian K. Talbot	1792	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 10 December 2008.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1,3,5,6,8-12 and 16 is/are pending in the application.

4a) Of the above claim(s) 11,12 and 16 is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1,3,5,6 and 8-10 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____.

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.

5) Notice of Informal Patent Application

6) Other: _____.

1. The amendment filed 12/10/08 has been considered and entered. Claims 2,4,7,13-15 and 17-19 have been canceled. Claims 1,3,5,6,8-12 and 16 remain in the application.

2. This application contains claims 11,12 and 16 that are drawn to an invention nonelected with traverse in the reply filed on 5/22/08. A complete reply to the final rejection must include cancellation of nonelected claims or other appropriate action (37 CFR 1.144) See MPEP § 821.01.

3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

4. In light of the amendment filed 12/10/08, the objection to the specification concerning the Title has been withdrawn.

Claim Rejections - 35 USC § 112

5. Claims 8-10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claims 8-10, the claims are confusing. It is unclear how the supply of two liquids that contact each other form a wiring pattern when one or both of the liquids is an insulating material? Clarification is requested.

Claim Rejections - 35 USC § 102

6. Claims 1,3,5,6, and 8-10 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by JP 11-274,671.

JP 11-274,671 teaches forming an arbitrary electric circuit on a pattern forming face through the use of an ink jet system. Fluid bodies 11-1n containing conductive materials and insulating materials as pattern forming materials are discharged from ink jet-type recording heads 21-2n on the pattern forming face 100 of a substrate 1. The fluid bodies 11-1n discharged on the pattern forming face 110 are caked and an electric circuit 102 is obtained. Since an arbitrary pattern is generated while the materials are changed into various types, the electric circuit containing the desired circuit elements of a capacitor, a coil, a resistor and an active element can be manufactured.

Claims 1,3,5,6, and 8-10 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Seki et al. 7,273,801.

Seki et al. 7,273,801 teaches a method for manufacturing an electronic display circuit, including a circuit unit, and a display device, the display device including a thin film patterning substrate, the method comprising: providing a substrate; forming banks on a surface of said substrate so as to form a plurality of areas partitioned by said banks, each of the banks having a width of a (.mu.m) and a height of c (.mu.m), and each one of the plurality of areas having a width of b (.mu.m); providing ink-jet droplets of a liquid material in said areas to form a thin film layer, said ink-jet droplets having a diameter of d (.mu.m), wherein said banks and said ink-

jet droplets satisfy a relationship $d/2 < b < 5d$. The banks can be formed by printing and heated and can be insulative, semiconductive or electrically conductive. (col. 14, lines 3-16, col. 22, lines 22-62 and claim 17)

Response to Amendment

7. Applicant's arguments filed 12/10/08 have been fully considered but they are not persuasive.

Applicant argued that the 35 USC 112 rejection should be withdrawn.

Applicant argued that the specification, pg. 13 lines 3-8 detail the instant invention where one of the two patterns is an insulating layer. The Examiner agrees and hence, claim 8 has been removed under the 35 USC 112 rejection. However, claims 9 and 10 recite that neither of the patterns are conductive and therefore the Examiner questions again how a wiring pattern is formed by applying tow patterns whereby neither is conductive. Clarification is requested.

Applicant argued that the prior art fails to teach applying the pattern in conjunction with information of where said wiring pattern is formed.

The Examiner disagrees. The cited references teach forming a wiring pattern by applying conductive and insulative materials with computer control. It is well know in the art that automation techniques normal include some type of feedback system and therefore the references met the claimed limitations.

8. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian K. Talbot whose telephone number is (571) 272-1428. The examiner can normally be reached on Monday-Friday 8AM-4PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy H. Meeks can be reached on (571) 272-1423. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Brian K Talbot/
Primary Examiner, Art Unit 1792

BKT